

BIBLIOGRAPHICAL RECORD.

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A colon after initial designates the most common given name, as: A: Augustus; B: Benjamin; C: Charles; D: David; E: Edward; F: Frederic; G: George; H: Henry; I: Isaac; J: John; K: Karl; L: Louis; M: Mark; N: Nicholas; O: Otto; P: Peter; R: Richard; S: Samuel; T: Thomas; W: William. The initials at the end of each record, or note, are those of the recorder.

Corrections of errors and notices of omissions are solicited.

- Bachmann, O.** Leitfaden zur anfertigung mikroskopischer dauerpräparate. München, *R. Oldenbourg*, 1879. t.-p. cover, 8+196 p., 24×15, t 17×10; 87 il. Pap., 4 M.
General instructions for making microscopic preparations: p. 68-99 treats especially of entomological preparations. *G: P.* (3235)
- Barrett, C: G.** Hints as to the best means of rearing larvae of *tortricidae*. (Entom. mo. mag., Jan. 1883, v. 19, p. 172-176.)
General directions for rearing the different forms of larvae of *tortricidae*. *G: D.* (3236)
- Bell, James Thompson.** How we captured a hornet's nest. (Can. entom., May 1881, v. 13, p. 114.)
Hornets (*vespa*) killed by injecting chloroform into their nest. *G: D.* (3237)
- Berg, Carlos.** Contribuciones al estudio de las *cicadidae* de la República Argentina y países limitrofes. "(Anal. soc. cient. argent., 1882, t. 14, p. 38-48.)"
Separate. Buenos Aires, 1882. t.-p. cover, 16 p., 25×16, t 18×11.
Describes 11 species (from South America and Mexico); 6 are new species as follows: *tettigades papa*, *tympanoterpes elegans*, *proarna uruguayensis*, *p. monlevidensis*, *carineta platensis*, and *derotettix* (nov. gen.) *mendosensis*. *G: D.* (3238)
- Bergroth, E.** Zur geographischen verbreitung einiger odonaten. (Entom. nachrichten, 15 March 1881, jahrg. 7. p. 85-88.)
Notes on numerous species of *odonata*. *G: D.* (3239)
- Bertholet, A.** [Présentation d'une section d'un sapin du Risoud pénètre par les fourmis.] (Bull. soc. vaudoise des sci. nat., Oct. 1881, s. 2, v. 17; Procès-verbaux, p. 35-36.)
Mode in which species of *camponotus* had formed galleries in a spruce tree. *G: D.* (3240)
- Bethune, C:** James Stewart, compiler. Insects of the northern parts of British America. From Kirby's Fauna boreali-americana: Insecta. (Can. entom., 1870, v. 2: April, p. 76-82; May, p. 89-93; July, p. 105-110; Sept.-Oct., p. 142-145; Dec., p. 168-176; 1871, v. 3: June, p. 27-32; Sept., p. 88-94, 114-116; Oct., p. 134-137, 155-156; Nov., p. 172-176, 186-192; Dec., p. 211-217, 227-233; 1872, v. 4: Feb., p. 31-36; March, p. 52-57; May, p. 93-96; June, p. 111-118; Aug., p. 151-155; Sept., p. 175-179; Oct., p. 196-198; Dec., p. 231-235; 1873, v. 5: Aug., p. 96-99; June, p. 115-117; July, p. 129-132; Oct., p. 193-196; Nov., p. 210-213; 1875, v. 7: June, p. 109-113; Aug., p. 156-159; 1877, v. 9: Aug. p. 148-156; 1878, v. 10: June, p. 116-118; July, p. 137-139; Nov., p. 213-217; 1878, v. 11: Aug., p. 146-154; 1881, v. 13: Aug., p. 162-170.)
Reprint of the parts of W: Kirby's "Fauna boreali-americana", . . . which apply to the insects of the northern parts of British America, together with notes, by the compiler, on the species and their synonymy. [See PSYCHE, Rec., nos. 485, 1214, and 1328.] *A. K. D.* (3241)
- Bieler, S.** [Appareil buccal de divers insectes.] (Bull. soc. vaudoise des sci. nat., Dec. 1880, s. 2, v. 17; Procès-verbaux, p. 6.)
Chiefly concerning the trophi of *pulex*. *G: D.* (3242)
- Butler, Arthur Gardiner.** Notes on some North American lepidoptera. (Papilio, July 1881, v. 1, p. 103-106.)
Describes *anceryx edwardsii* as a new species, and states that the insect known as *oenosanda noctuiformis* Walk. is a new species, and that its generic name should be *cautellia*; gives comparative and other notes on *hemaris cynglossum*, *pteronon clarkiae*, *deidamia inscripta*, *choerocampa tersa*, *dellephila lineata*, *philampelus achemon*, *smerinthus ophthalmicus*, *sphinx orcodaphne*, *s. perlegans*, and refers *darapsa versicolor* to the genus *ampelophaga*. *H: E.* (3243)

Butler, Arthur Gardiner. Notes on some North American lepidoptera. (Papilio, Sept. 1881, v. 1, p. 128-132.)

Comparative notes on *xystus rubiniæ*, *alyfia sacramenti*, *a. ridingsii*, *opidryas gloveri*, *gnophaela hoffleri*, *g. vermiculata*, *dahona atripennis*, *clenucha subrosca-pus*, *leptarcia lena*, *arcia intermedia*, *a. achata*, *a. ochracea*, *euchrestis collaris*, *phryganidea californica*, *hemileuca nevadensis*, *pseudohazis eglanterina*, *saturnia mentocina*, *clisiothorax californica*, and *calimacodes scaphia*. Refers *gnophaela* to the *arctiidae*, section *pericopidae*, and states that *clenucha walsinghamii* Hb. Edw. = *c. rubrocapus* Men. Believes that *phryganidea californica* should be placed in the family *diopliidae*.

H. E. (3211)

Butler, Arthur Gardiner. Notes on some North American lepidoptera. (Papilio, Oct. 1881, v. 1, p. 168-171.)

Calls attention to the affinities of the *noctuidæ*, particularly with reference to early stages, and gives comparative notes of several species.

H. E. (3245)

Butler, Arthur Gardiner. Notes on some North American lepidoptera. (Papilio, Dec. 1881, v. 1, p. 220-223.)

Notes on *geometridæ*; thinks *metrocampa perlata* Guen. = *m. margaritata*; compares *tetracis aggregata* of California with *subulodes dosillicata* Guen. of Venezuela, and thinks them congeneric; refers *thamnomoma tripunctaria* Pack. to genus *lozogramma*; says that *glanopteris caesiata* Hüb. does not exist in United States, and that our species known by that name is undescribed; *triphosa dubitata* Pack. is not *t. dubitata* Linn.

H. E. (3249)

Comstock: J. H. An aquatic noctuid larva. *Arzama melanopyga* Grote, new species. (Papilio, Oct. 1881, v. 1, p. 147-149.)

Describes larva and habits of *arzama melanopyga*, feeding upon the leaf-stalks of the pond-lily, (*nuphar advena*). In this paper A. K. Grote gives description (quoted by Comstock) of the imago of *a. melanopyga* as a new species, and compares it with *a. diffusa*, *a. vulnifica*, and *sphida obliquata*.

H. E. (3247)

Edwards, H. Description of some new species of N. American moths. (Papilio, June 1881, v. 1, p. 100-101.)

Describes as new *entleophanus sororius* from Lower California, *plusia celsa* from Oregon, and *xanthothrix nevadogeni* from California; redescribes *gloveria arizonensis* Pack., from Arizona.

H. E. (3248)

Edwards, H. Descriptions of some new species of heterocera. (Papilio, July 1881, v. 1, p. 115-121.)

Describes as new *sphinx libocedrus*, *anatolmis fulgens* and *zenone elegantaria* from Arizona, *sphinx utahensis* from Utah, *synedra valens* from Southern Utah, *thyridopteryx meadii* from Mohave Desert, *gorytodes personaria* from California, *oribates versutus*, *o. opiparus* and *synedra occulta* from Texas, *azclina morrisonaria* from Washington Territory, *catoxala cilia* from New York, *c. miranda* from District of Columbia, and *synedra facta* from Florida; finds *oribates* occupied as a generic name, and substitutes *gyras* for it.

H. E. (3246)

Edwards, H.: Joseph Duncan Putnam. (Papilio, Dec. 1881, v. 1, p. 223-224.) [Rec., 2666.]

Biographical sketch of J. D. Putnam, president of the Davenport academy of natural sciences; b. 13 Oct. 1855, in Jacksonville, Ill.; d. 10 Dec. 1881, in Davenport, Iowa.

H. E. (3250)

Edwards, H. New genera and species of the family *aggeridae*. (Papilio, Nov. 1881, v. 1, p. 179-208, pl. 4[1].)

Describes *ehagena*, *larunda*, *carmenta* and *albuna* as new genera of *aggeridae*, and describes as new species *trachilium pacificum*, *ehagena nebraskæ*, *bombeca sequoie*, *b. superba*, *larunda solitudo*, *sciapterion graefii*, *s. scopiformis*, *s. cupressi*, *carmenta ruficornis*, *c. minuta*, *c. sanborni*, *c. travini*, *albuna respiciens*, *a. rutlandi*, *a. rileyana*, *a. artemisiæ*, *a. moulandi*, *a. laudati*, *a. vincourensensis*, *a. coloradensis*, *a. torva*, *ageria flava*, *a. aurata*, *a. corni*, *a. saxifragæ*, *a. zerecunda*, *a. brunneipennis*, *a. rubrofasciata*, *a. bolli*, *a. lupini*, *a. perplexa*, *a. impræpria*, *a. sextasciata*, *a. corusca*, *a. areola*, *a. consimilis*, *a. hyperici*, *a. infirma*, *a. cupatorii*, *a. imitata*, *a. mornli*, *a. kobelci*, *a. washingtonia*, *a. decipiens*, *a. neglecta*, *a. imperfecta*, *a. hemizonia*, *a. senecioides*, *a. refulgens*, *a. opalescens*, *a. novirostris*, *a. grilice*, *a. mimuli*, *a. madariæ*, *a. albicornis*, *a. proxima*, *a. insitata*, *a. nicotianæ*, *pyrrhotactia polygami*, *p. fragariæ*, *p. helianthi*, *p. achillæ*, *p. lefferi*, *p. erenocarpi*, *p. meadii*, *p. orthocarpi*, *p. levana*, *zenodaxus heucherae*, *z. potentillæ*, *z. canescens*; describes larva of *sciapterion syringæ*. Quotes W ilker's descriptions of *ageria pleciiformis*, *a. pyramidalis*, *a. odyneriformis*, *a. euphylliformis*, *a. hydrotomiformis*, *a. pyralidiformis*, *a. safygaformis*, *a. geliformis*, and gives colored figures of all these species except *a. pyralidiformis*.

H. E. (3251)

Edwards, W. H. On certain habits of *heliconia charitonia*, Linn., a species of butterfly found in Florida. Read before the Ent. sub-sect. of Am. Ass. Cinn. 18 Aug. 1881. (Papilio, Dec. 1881, v. 1, p. 203-215.)

Paper read in part before Permanent sub-section of entomology of A. A. S., at Cincinnati, O., 18 Aug. 1881. States that, from observations of Dr. W. H. Wittfeld, of Florida, the males of *heliconia charitonia* attach themselves in numbers to the chrysalis of the female before emergence, and place themselves in situ sometimes before the whole body of the female has freed itself from the shell.

H. E. (3252)

Edwards, W. H. Description of a new hesperian from Florida. (Papilio, 31 May 1881, v. 1, p. 78-79.)

Describes as new *pamphila straton*; compares it with *p. leonardus* and *p. arpa*.

H. E. (3253)

Edwards, W. H. Description of the preparatory stages of *thecla henrici*, Grote. (Papilio, Oct. 1881, v. 1, p. 150-152.)

Describes egg, larval stages and chrysalis of *thecla henrici*. States that the larva feeds upon the fruit of plum-trees [*prunus*].

H. E. (3251)

Edwards, H. A new and remarkable bombycid moth from Arizona. (Papilio, Oct. 1881, v. 1, p. 171-172.)

Describes as new *calceophanus nevadogeni*.

H. E. (3255)

Edwards, H: A new genus and some new forms of North American *zygaenidae*. (Papilio, 31 May 1881, v. 1, p. 80-81.)

Describes *penethria* n. g. *zygaenidae*, *p. majuscula*, *p. parvula*, *gnophola vermiculata* var. *continua*, *lycomorpha constans* and *l. desertus*. H. E. (3250)

Edwards, W: H: On *pietris bryoniae* Ochsenheimer, and its derivative forms in Europe and America. (Papilio, June 1881, v. 1, p. 84-99, pl. 2-3.)

Gives full and careful examination and diagnosis of all species or varieties, both European and American, allied to *pietris bryoniae*, with comparative notes on their resemblances and probable origin. Gives 18 colored figures, on two plates, of summer and winter forms. H. E. (3257)

Edwards, W: H: Some remarks on the alleged abnormal peculiarities of *argynnis myrina*. (Papilio, Sept. 1881, v. 1, p. 134-141.)

Paper read before the Permanent sub-section of entomology of the American association for the advancement of science, at Cincinnati, O., 19 Aug. 1881. Combats the opinions expressed by S. H. Scudder in his "The curious history of a butterfly" (Amer. nat., Sept. 1872, v. 6, p. 513-518) [Rec., 3274], with reference to the hibernation and other habits of *argynnis myrina* and *a. bellona*. H. E. (3258)

Fernald, C: H: Notes on "The *tortricidae*, *tincidae* and *pterochoridae* of South Africa. Lord Walsingham, M. A. F. Z. S." &c. (Papilio, Dec. 1881, v. 1, p. 219-220.)

Notice of T. de Grey's [Lord Walsingham] "The *tortricidae*" etc.; explanation of the synonymy of *exartema* Clem. = *eccopsis* Zell. R. P. M. (3259)

French G: Hazen. Larvae of two species of *euclea*. (Papilio, Sept. 1881, v. 1, p. 144-145.)

Describes larvae of *euclea pauculata* and *e. monitor*. H. E. (3260)

French, G: Hazen. Notes on the larvae of some moths. (Papilio, 31 May 1881, v. 1, p. 81-82.)

Describes larva of *arctia decorata* and *cyatophora pampinaria*. H. E. (3261)

French, G: Hazen. A parasite in *aegeria syringae*. Harris. (Papilio, July 1881, v. 1, p. 106.)

Records the existence of *phaeogenes ater* Cress. (fam. *ichneumonidae*) in the larva of *aegeria syringae*. H. E. (3262)

French, G: Hazen. Some new varieties of *catocalae*. (Papilio, July 1881, v. 1, p. 110-111.)

Describes as new *catocala lachrymosa* var. *celina*, *c. lachrymosa* var. *zelica*, *c. innubens* var. *hindu*, all from Illinois. H. E. (3263)

Grote, A: Radcliffe. Moths collected by Prof. Snow in New Mexico, with list of *eudrini*. (Papilio, Oct. 1881, v. 1, p. 174-178.)

Describes as new *halosidota labecula*, *quadrina* n. gen. (*dryocampini*), *g. diazoma*, *rhododipsa miniana*, *bessula* n. gen. (*noctuidae*), *bluxa*, *empholia cephalaria*, *e. ferreularia*, *botis loralis*; notices occurrence of *lygranthocia spraguei* and *botis volupialis*; gives list of the tribe *eudrini*, and diagnoses the genera *enochropterus*, *copidryas*, *eudryas* and *ciris*. H. E. (3264)

Grote, A: Radcliffe. New western moths. (Papilio, 31 May 1881, v. 1, p. 75-78.)

Describes *trioemnis* as a new genus of *noctuidae* and describes as new species *thyatira lorata*, *bomblycia semicircularis*, *agrotis claudina*, *hadena cinchacta* and *trioemnis saporis*, from Washington Territory, *nola fuscata* from Colorado, and *melipotria honesta* fr. in Oregon. re-describes *agrotis harvii*, and points out its distinctness from *a. clandestina*. H. D. (3265)

Grote, A: Radcliffe. Note on *agrotis repentis*. (Papilio, Sept. 1881, v. 1, p. 126-128.)

Endeavors to establish the difference between *agrotis repentis* and *a. messoria*; notices other forms resembling these species, and states that *a. cochranii* Riley = *a. repentis* G. & R., *acronycta populi* Riley = *a. lepusculina* Guen., *protentia autumnalis* Riley = *laphygma frugiperda* Abb. & Sm., *xylixa cinerea* Riley = *v. attenuata* Walk., and probably *agrotis scandens* Riley = *a. messoria* Harr. and *plusia brassicae* Riley = *p. ni* Hübn. H. E. (3266)

Grote, A: Radcliffe. Professor Riley on *dakruma*. (Papilio, Sept. 1881, v. 1, p. 142-144.)

Contents that *dakruma* is a good genus, in opposition to a statement of C. V. Riley that it should be merged in *zophodia*. H. E. (3267)

Gundlach, Juan. An annotated catalogue of the diurnal lepidoptera of the island of Cuba. Based on Kirby's Synonymical catalogue. (Papilio, July 1881, v. 1, p. 111-115.)

Enumerates 53 genera and 145 species of diurnal lepidoptera, known to the author to exist in Cuba. H. E. (3268)

Kellicott, D: Simons. The larvae of *catocala flebilis* and *catocala amatriva*. (Papilio, Sept. 1881, v. 1, p. 141-142.)

Gives full description of larva and chrysalis of these species, *c. flebilis* feeding on *carya alba* and *c. amatriva* on *populus grandidentata*. H. E. (3269)

Langdon, Frank W. Bibliography of the Cincinnati fauna. (Journ. Cincinnati soc. nat. hist., April 1883, v. 6, p. 5-39.)

The part devoted to insects, by C. Dury, contains titles, references and notes on papers by James Angus, C. Dury, A: R. Grote, F. W. Langdon, J. W. Shorten, C. G. Siewers, Herman Strecker, J. A. Warder, A. G. Wetherby and Harold B. Wilson. G. D. (3270)

Lintner, Joseph Albert. Corrections. *Papilio*. July 1881, v. 1, p. 122.)

Corrects some trilling errors in his "On some species of *nisonioides*" (*op. cit.*, 31 May 1881, v. 1, p. 69-74). Rec., 3272) and enunciates an opinion on permanency of nomenclature. *H. E.* (3271)

Lintner, Joseph Albert. On some species of *nisonioides*. (*Papilio*, 31 May 1881, v. 1, p. 69-74.)

Corrections by author. (*op. cit.*, July 1881, v. 1, p. 122.)

Describes as new *nisonioides macrinus*, *n. petronius*, *n. sommus*, all from Florida; gives comparative notes on *n. propretius*, *n. javonidis*, *n. icelus*; establishes as a good species *eudamus nevada* Scudd., and notes the occurrence in N. York of *eudamus protens*. *H. E.* (3272)

Neumoegen, Berthold. A new *hemileuca* from south-eastern Arizona. (*Papilio*, Oct. 1881, v. 1, p. 172-174.)

Describes as new *hemileuca yarapai*; compares it with *h. juno* and *h. dido*. *H. E.* (3273)

Scudder, S.; Hubbard. The curious history of a butterfly. (*Amer. nat.*, Sep. 1872, v. 6, p. 513-518.)

Separate. [Salem, Mass., 5 Oct. 1872]. 6 p., 24X15, t 17X9.7.

Ger. tr., by A. Speyer, entitled "Seltsame geschichte eines tagfalters" (*Verh. k.-k. zool.-bot. ges. Wien*, 1873, bd. 23; *Abh.*, p. 145-152.)

Notice, by W. F. Kirby. (*Zool. rec.*, for 1872, 1874, v. 9, p. 343.)

Notice, by E. Burgess. (5th ann. rept. Peabody acad. sci., for 1872, 1873, p. 107, 108.)

Crit. rev., by W. H. Edwards, entitled "Some remarks on the alleged abnormal peculiarities of *argynnis myrina*." (*Papilio*, Sep. 1881, v. 1, p. 134-141.)

"There are two sets of individuals [of *brethis boltoni*], each following its own cycle of changes, apparently with as little to do with the other set as if it were a different species; each set has its own distinct seasons and thus gives rise to the apparition of two or three successive broods in the course of the year." Explains nature of the relations of these apparent broods. (*For further notice, see title of Speyer's translation* [Rec., 3277].) *G. D.* (3271)

Scudder, S.; Hubbard. A new and unusually perfect carboniferous cockroach from Mazon Creek, Ill. (*Proc. Bost. soc. nat. hist.*, [6] Sep. 1882, v. 21, p. 391-396.)

Description of *Aoblatina mazoni*, n. sp. *G. D.* (3275)

Scudder, S.; Hubbard. Notes on some of the tertiary neuroptera of Florissant, Colo., and Green River, Wyoming Terr. (*Proc. Bost. soc. nat. hist.*, [12] Oct. 1882, v. 21, p. 497-499.)

General discussion of the tertiary neuroptera from the above regions. *G. D.* (3279)

Scudder, S.; Hubbard. Seltsame geschichte eines tagfalters aus dem American naturalist, September, vol. 6, 1872, übers., und mit bemerkungen versehen von Dr. Ad. Speyer in Rhoden. (*Verh. k.-k. zool.-bot. ges. Wien*, 1873, bd. 23; *Abh.*, p. 145-152.)

Separate. [Wien, 1873]. 8 p., t 17X10.5. Reprint. (*Deutsche entom. zeitschr.*, 1875, bd. 19, p. 145-155.)

Notice. (*Psyche*, June 1875, v. 1, p. 78; *Rec.*, 109.)

Ger. tr., by A. Speyer, of author's "The curious history of a butterfly" (*Amer. nat.*, Sep. 1872, v. 6, p. 513-518) [Rec., 3274], with an additional note by author. *G. D.* (3277)

Spångberg, Jacob. Species jassi generis homopterorum. (Öfversigt af kongl. vetenskaps-akademiens förhandlingar, 1878, n:o 8.) Stockholm, 1878. p. 3-49, 22X14, t 17.5X10.

Describes 51 (29 new) species of *jassus*, of which 3 (*j. melanotus* and *j. fuscipennis* = 2 new) species are from the United States, and 5 (*j. pustulatus* and *j. flaviceps* = 2 new) species are from Mexico. *G. D.* (3278)

Spångberg, Jacob. *Psocina* Sueciae et Fenniae. Öfversigt af Sveriges och Finlands psociner. (Öfversigt af kongl. vetenskaps-akademiens förhandlingar, 1878, n:o 2.) Stockholm, 1878. p. 5-29, pl. 1-2, 22X24.

Synoptic tables for separating the genera and species of *psocidae* of Sweden and Finland, with figures to illustrate the venation of the wings. [Some of the species are also found in the United States.] *G. D.* (3279)

Spångberg, Jacob. Homoptera nonnulla americana nova vel minus cognita. (Öfversigt af kongl. vetenskaps-akademiens förhandlingar, 1879, n:o 6.) Stockholm, 1879, p. 17-26, pl. 15-16, 22X14, t 17.5X10.

Describes and figures *jassus borealis* (n. sp. from North America) and *j. gratusus* (n. sp.) from Mexico, besides species of *gypona*, *petalopoda*, *terulia*, and *jassus* from other localities. *G. D.* (3280)

Spångberg, Jacob. Species gyponae generis homopterorum. (Bihang till k. svenska vet.-akad. handlingar, band 5, n:o 3.) Stockholm, 1878. 76 p., 22X14, t 17.5X10.

Describes 69 (55 new) species of *gypona* and notes 11 species unknown to him. The species described are as follows: United States, 10 (5 new); Mexico, 10 (6 new); of which 2 species are also found in South America; South America, 69 (31 new); and Tahiti, 3, 1 new species. *G. D.* (3281)

Stretch, R.; H. Notes on the genus *clisio-campa*, Curtis. With description of new species. *Papilio*, 31 May 1881, v. 1, p. 63-64.)

Describes as new *clisio-campa fragilis*, *c. constricta*, *c. strigosa*, *c. erosa*, *c. thoracica*; describes larva and cocoon of *c. californica*, *c. constricta*, *c. erosa*; gives notes and synonymy of *c. merriana* and *c. distria*, and records singular habit of larva of *c. californica*. *H. E.* (3282)